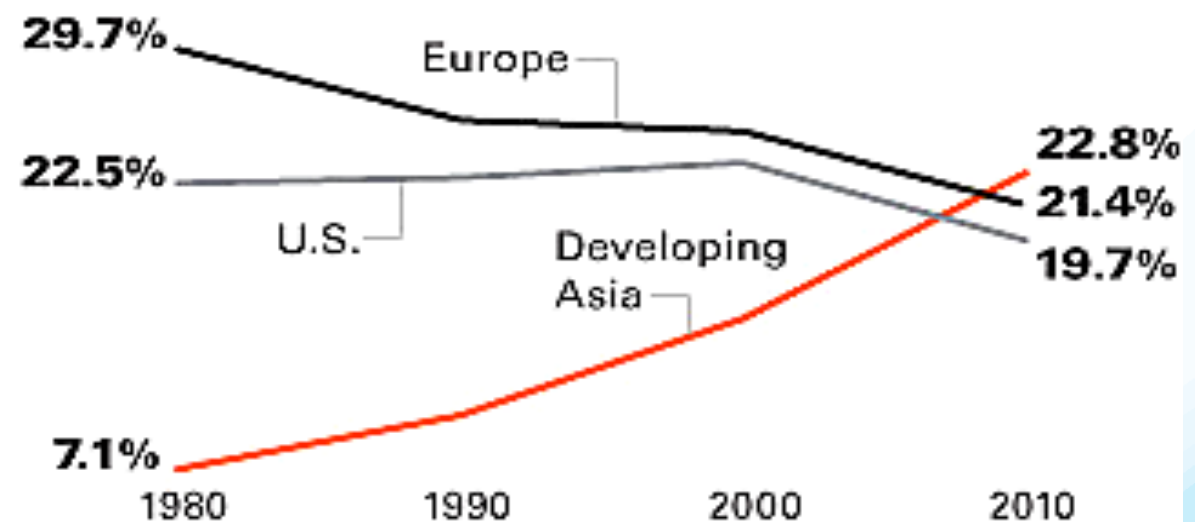


Push factors for action in innovation

- Crisis of Commons of product design and manufacturing
- Environmental & resources crisis
- The BRIC factor

Changing shares of global GDP



Source: IMF World Economic Outlook Database

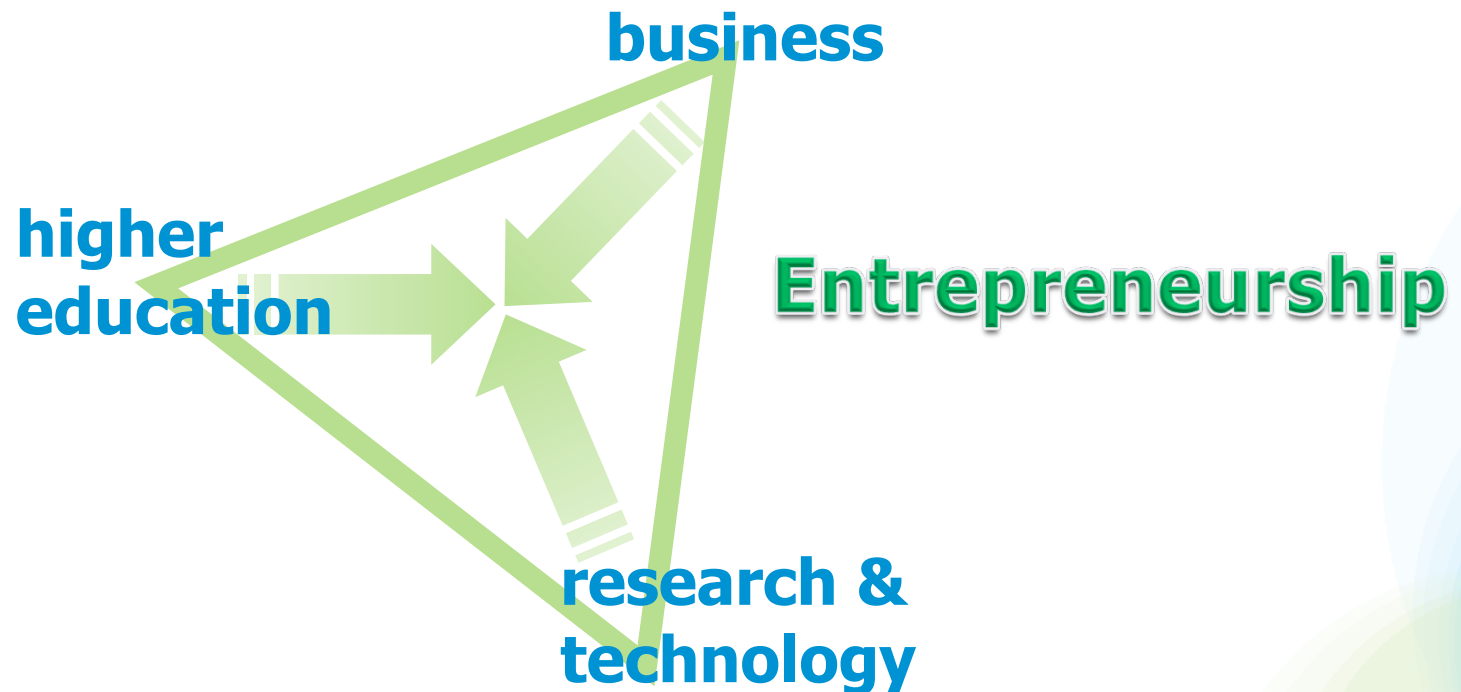
European Institute of Innovation and Technology (EIT)

Mission:

“To be the catalyst for a step change in the European Community’s innovation capacity and impact”

The knowledge triangle at the core of innovation

Actors in the knowledge triangle are at the core of the **innovation web**



KICs main ingredients

Prerequisites for scaling up **Europe's innovation performance:**

- enhanced capacities
- high degree of integration e.g. co-location
- leadership

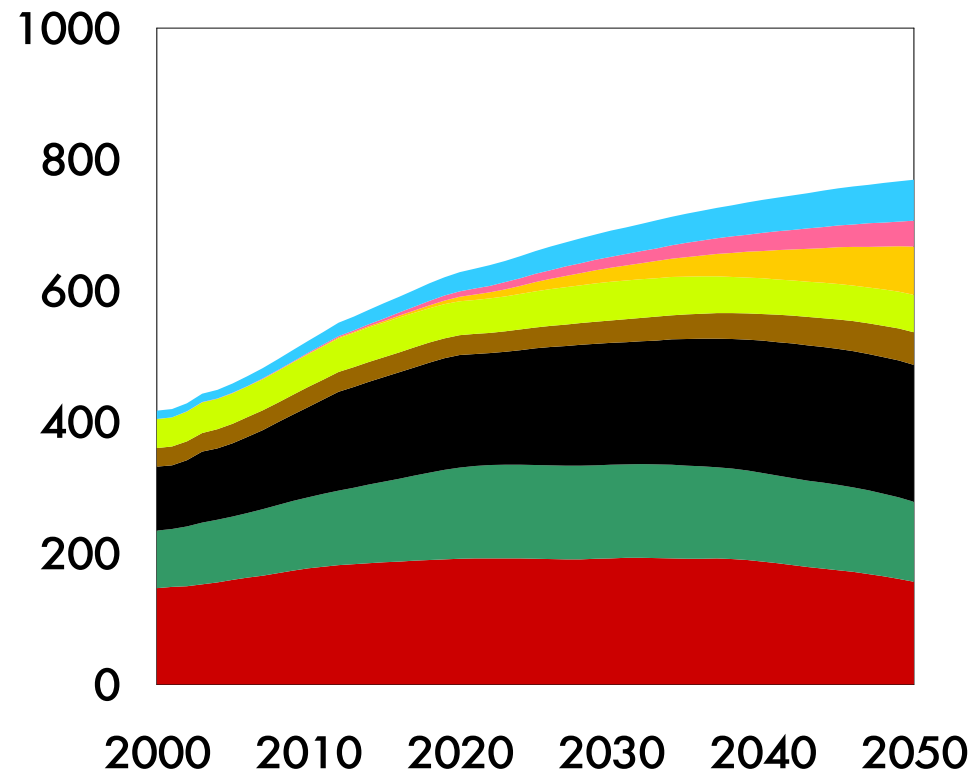
KICs integrate the knowledge triangle

- new innovations & new innovation models (inspiring others to emulate them)
- Entrepreneurship is the glue and the driver of the triangle



Energy sustainability drives mix- Blueprints

Total primary energy (EJ per year)

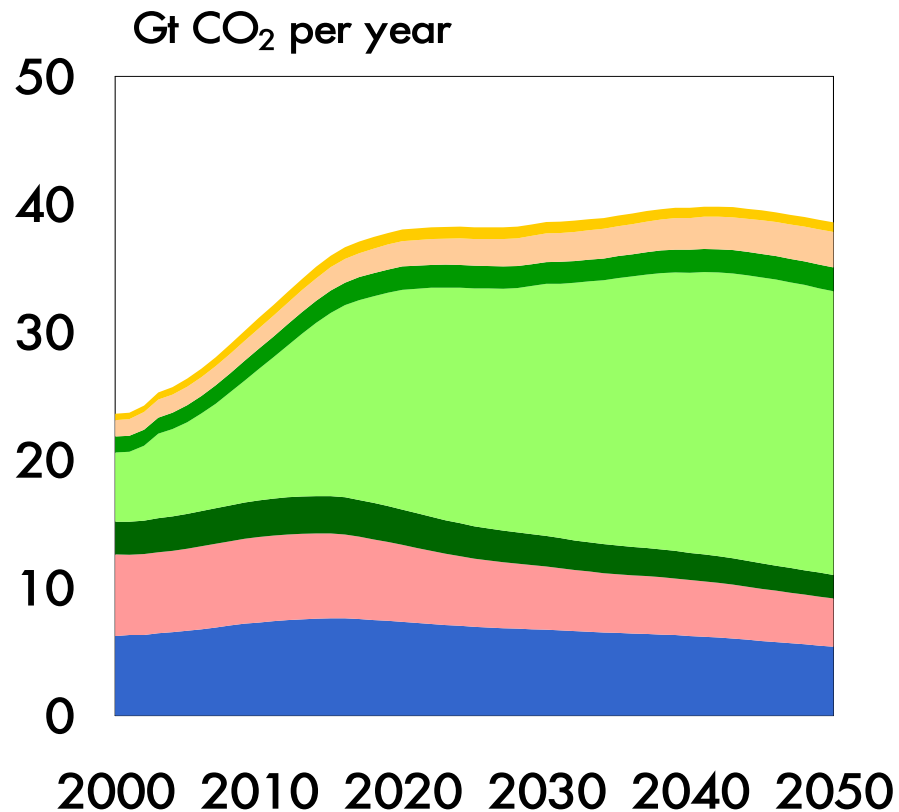


- Broad awareness of challenges at all levels, not only national
- Critical mass of parallel responses to hard truths
- Effective carbon pricing established early
 - Rerouted to renewables
 - Taxes on imported fossil fuels
- Efficiency standards
- Electrification of transport sector
- New infrastructure develops e.g. CCS emerges after 2020

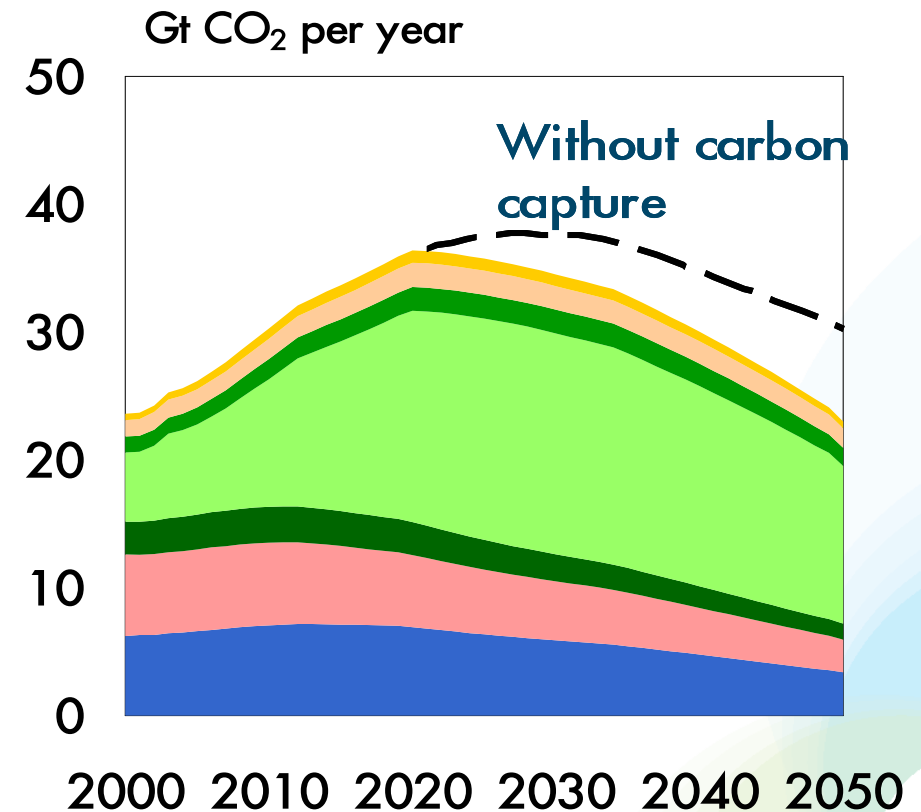
■ Oil ■ Gas ■ Coal ■ Nuclear ■ Biomass ■ Solar ■ Wind ■ Other Renewables

Implications for CO₂ emissions

Scramble



Blueprints



Europe

Asia & Oceania - Developed

Latin America

North America

Asia & Oceania - Developing

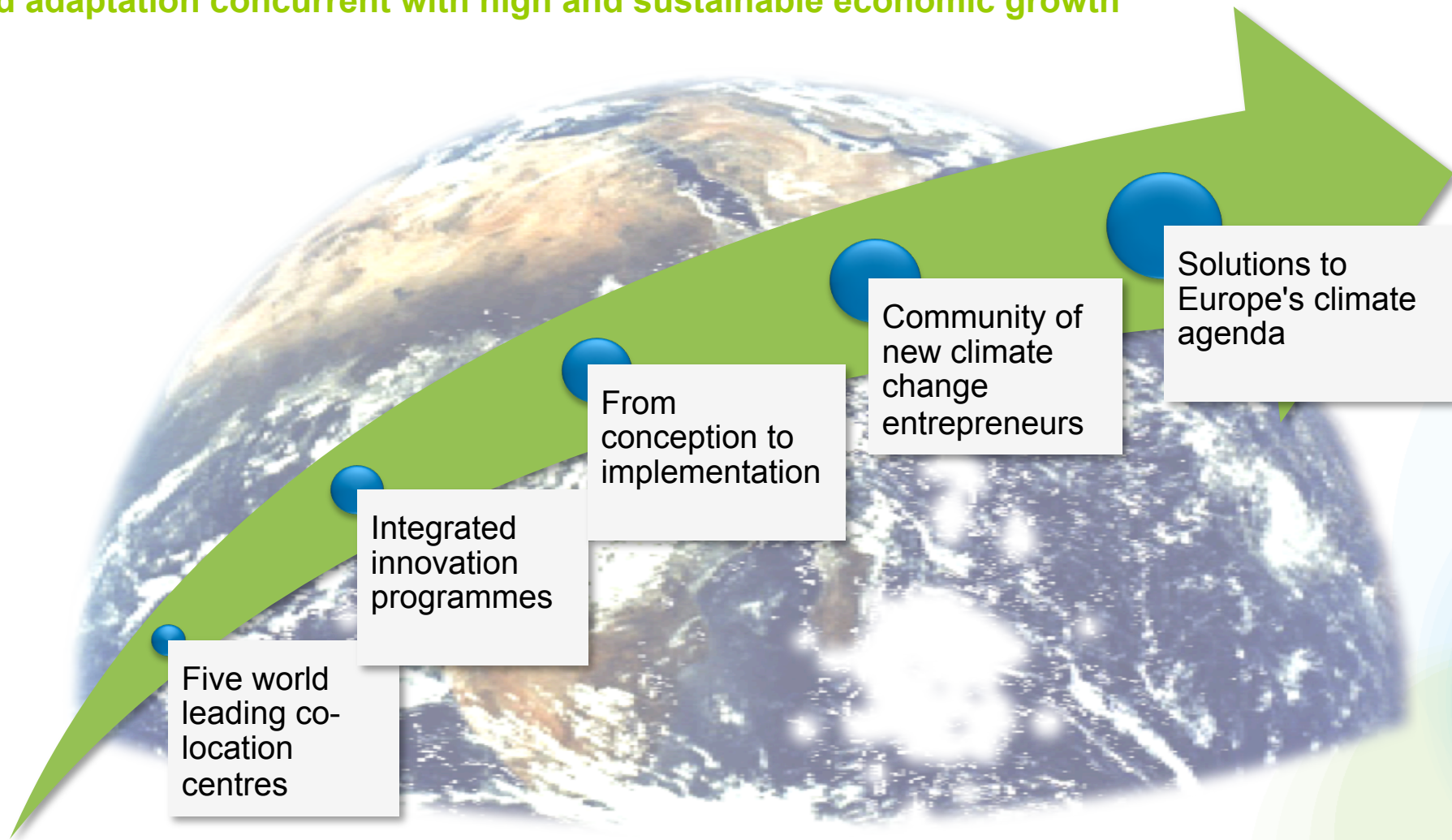
Middle East & North Africa

Sub-Saharan Africa

Climate KIC

will contribute to Europe's agenda:

“Europe leads the world in aggressively tackling Climate Change mitigation and adaptation concurrent with high and sustainable economic growth”



Climate-KIC focus

- Attract and **educate** Climate Change agents and entrepreneurs
- Contribute to effective European CC **legislative framework**
- Enable **productive dialogue** between industry, governments and consumers
- Stimulate climate change inspired **new economic activities**
- Create self sustaining clusters of **research and innovation excellence**

Outcomes

Transform Europe's response to climate change



Strengthen industrial and regional competitiveness, and economic growth

Innovative companies across industries critical to a low-carbon future



Leading academic and research institutes in critical area of climate change



TNO, Deltares,

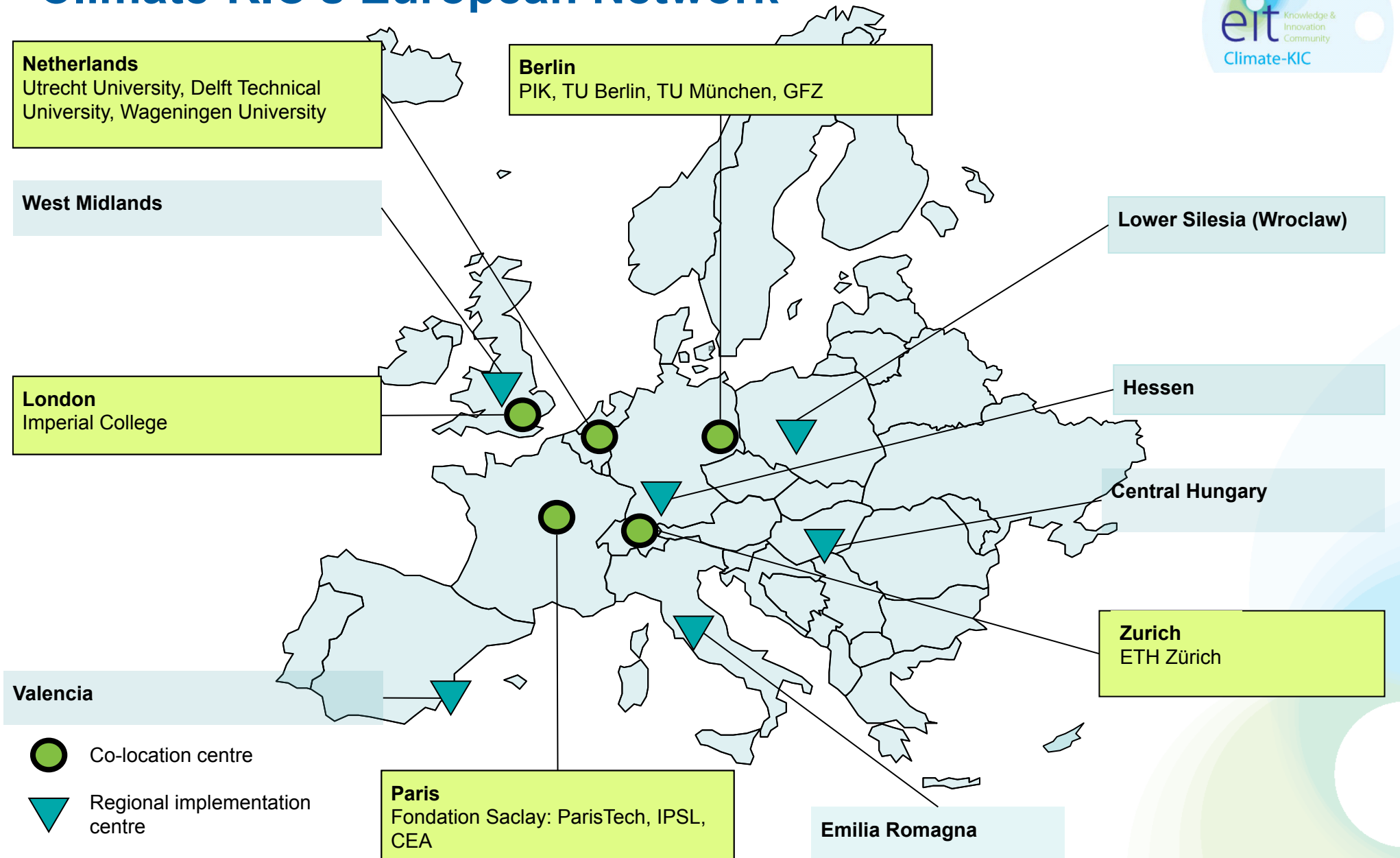
Port of Rotterdam, Province of Utrecht

Regional agencies driving sustainable growth and development



From a group of prominent and interested parties.....
.....to a productive Knowledge and Innovation Community

Climate-KIC's European Network



Programs and Themes



Non-academic partners

Assessing climate change and managing its drivers

Projecting, forecasting and managing **climate extremes**

Integrated solutions for **Carbon management**



Transitioning to resilient low carbon cities

Decarbonising major cities, including the integration of urban sub-systems

Electric urban mobility through combined energy and transport infrastructure



Adaptive water management

Managing **Europe's scarce water resources**

Integrated land-use practices for **managing catchments**



Zero carbon production systems

Sustainable bio-renewables production

Integrated energy production and consumption – renewables, CCS and electricity infrastructure



Where are we going with Climate-KIC.....

We made a good start and work hard to further shape the Climate-KIC initiative

- **From growing pains to stable operations**
- **From engaged parties to a productive community**
- **From high level vision to a sharp strategy implementation plan**